

**32 Leads - QFN 5x5**  
**Package Material Declaration**

Date	28-Sep-20	Product name	Integrated Circuit
Package Code	LW	RoHS Compliant	Y
Package Name	Micro Leadframe Package Quad	Halogen Free	Y
Product Total Mass (g)	0.0687	Plating	electroplating+Sn immersion

**Product Number** MLX83203

**Material Declaration**

Part Name	Material Name	Component Weight (g)	Material Component (Element)	CAS #	Element ratio (%)	Material Weight (g)	Ratio total Wt (ppm)
Leadframe	Copper Alloy EFTEC64T (C18045)	0.0193	Copper (Cu)	7440-50-8	99.32	0.01916	278782
			Chromium (Cr)	7440-47-3	0.236	0.00005	662
			Tin (Sn)	7440-31-5	0.224	0.00004	629
			Zinc (Zn)	7440-66-6	0.186	0.00004	522
			Silicon (Si)	7440-21-3	0.012	0.000002	34
			others	-	0.022	0.000004	62
Leadframe Plating	Silver	0.0006	Silver (Ag)	7440-22-4	100	0.00055	8071
Die	Silicon	0.0051	Silicon (Si)	7440-21-3	99.99	0.00506	73677
			others	-	0.01	0.0000005	7
Die attach material	Silver Adhesive 8600	0.0087	Silver (Ag)	7440-22-4	85	0.00736	107025
			Bismaleimide resin	-	15	0.00130	18887
Wire	Gold with Platinum	0.0005	Gold (Au)	7440-57-5	99.2	0.00048	6961
			Platinum (Pt)	7440-06-4	0.6	0.000003	42
			Palladium (Pd)	7440-05-3	0.2	0.0000010	14
Lead Finish	Tin	0.0022	Tin (Sn)	7440-31-5	99.99	0.00216	31423
			others	7439-92-1	0.01	0.0000002	3
Encapsulation	Epoxy resin EME G700LTD	0.0325	Silica	60676-86-0	85	0.02765	402219
			Silica	7631-86-9	5	0.00163	23660
			Epoxy Resin	-	5	0.00163	23660
			Phenol Resin	-	2.3	0.00075	10884
			Carbon Black	1333-86-4	0.4	0.00013	1893
			others	-	2.3	0.00075	10884

**Total package weight (g)** 0.0687

**Comments**

- Composition derived from MSDS and material CoC from vendors
- Component weight based on assembly of generic parts
- Reliability qualification reports are available upon request through the appropriate sales or marketing contact
- Third party testing for RoHS substances are available upon request to environment@melexis.com

**Disclaimer**

"MELEXIS has taken every effort to ensure that the information provided in this document is correct, accurate and up-to-date.

MELEXIS, however, shall not be held liable for any improper or incorrect use of the information described and/or contained herein and assumes no responsibility whatsoever for recipient's or a third party's use of this information. In no event MELEXIS shall be held liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to: procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, tort (including negligence or otherwise), or any other theory arising in any way out of the use of this system, even if advised of the possibility of such damage.

This disclaimer of liability applies to any damages or injury, whether based on alleged breach of contract, tortious behavior, negligence or any other cause of action".

The content of this document is CONFIDENTIAL & PROPRIETARY. ALL Rights Reserved.